

MEISLOWA, Paula; RABCZYNSKA, Felicja; KUDELSKI, Zygmunt

Evaluation of vaccines and of the effectiveness of vaccinations against typhoid fever. XII. Agglutinating antibodies in rabbit sera after the immunization with antityphoid vaccines. Przegl. epidem. 17 no.1/2:81-87 '63.

1. Z Zakladu Badania Surowic i Szczepionek Panstwowego Zakladu Higieny Kierownik: prof. dr H. Meisel.
(TYPHOID-PARATYPHOID VACCINES)
(AGGLUTINATION) (ANTIBODIES)

KUDELSKI, Zygmunt; MEISLOWA, Paula; RABCZYŃSKA, Felicya

Evaluation of vaccines and of the effectiveness of vaccinations against typhoid fever. XIII. Evaluation of 4 typhoid vaccines by means of an active mouse test. Przegl. epidem. 17 no.1/2: 89-97 '63.

1. Z Zakładu Badania Surowic i Szczepionek Państwowego Zakładu Higieny Kierownik: prof. dr H. Meisel.
(TYPHOID-PARATYPHOID VACCINES) (ZYMOBAN)

SWIRKIN, Elzbieta; SPORZYNSKA, Zdzisława; KULISKI, Zygmunt

Laboratory evaluation of immunogenic properties of non-adsorbed tri-vaccine Di-Te-Per produced in Poland. The tetanus component. Med. dosw. mikrobiol. 16 no.2:111-122 '64.

1. Z Zakładu Badania Surowic i Szczepionek Państwowego Zakładu Higieny (Kierownik: prof. dr. H. Meisel).

RABEZYNSKA, Felicja; MEISLONA, Paula; KUDELSKI, Zygmunt.

Specificity of a test used in the evaluation of immunogenic properties of typhoid vaccines. *Med. dozw. mikrobiol.* 16 no.4: 275-281 '64

1. Z Zakładu Badania Surowie i Szczepionek Państwowego Zakładu Higieny w Warszawie (Kierownik: prof. dr. H. Meisel).

KUDEL'SKIY, A.V.

Formation of hydrogen sulfide solutions in intermountain troughs
of the western Kopet-Dag, as exemplified by the Sumbar synclinal.
Izv.AN Turk.SSR.Ser.fiz.-tekhn., khim.i geol.nauk no.3:79-83
'63. (MIRA 17:3)

1. Upravleniye geologii i okhrany nedr pri Sovets Ministrov
Turkmenakoy SSR.

BARTASHEVICH, O.V.; KUDEL'SKIY, A.V.

Gas-oil fields in Mesozoic deposits of the western Kopet-Dag.
Izv.AN Turk.SSR.Ser.fiz.-tekhn., khim.i geol.nauk no.3:118 '63.
(MIRA 17:3)

1. Upravleniye geologii i okhrany nedr pri Sovete Ministrov
Turkmeniskoy SSR.

KUDEL'SKIY, A.V.; BARTASHNICH, O.V.

Prospects for finding gas and oil in the western Kopetdag. Inv.
AN Turk. SSR. Ser. fiz.-tekhn., khim. i geol. nauk no. 3:58-64
1964. (MIRA 18:1)

1. Upravleniye geologii i okhrany nede pri Sovete Ministrov
Turkmensoy SSR.

KROL, Ya.M., podpolkovnik meditsinskoy sluzhby, kand.med.nauk; KUDEL'SKIY,
L.A., podpolkovnik meditsinskoy sluzhby

Features of inflammatory diseases of the accessory nasal sinuses
in submarine personnel. Voen.-med. zhur. no.3:36-38 Mr '60.

(MIRA 14:1)

(SINUSITIS)

(SUBMARINE MEDICINE)

KUDEL'SKIY, L.A., podpolkovnik meditsinskoy sluzhby; KRAVETS, I.M.,
kapitan meditsinskoy sluzhby

Organization of rest in sanatoria for submarine personnel at a
base. Voen.-med. zhur. no. 6:52-53 Je '60. (MIRA 13:7)
(MEDICINE, NAVAL)

ACC NR: AP6035917

(A)

SOURCE CODE: UR/0413/66/000/020/0103/0103

INVENTOR: Bogdanov, S. A.; Kaloyev, A. V.; Makeyev, A. D.; Shipilevskiy, G. B.;
Ponomarev, V. I.; Simonov, L. P.; Soshnikov, A. A.; Kalinovskiy, N. P.; Vaynshteyn,
L. A.; Pann, L. A.; Kudel'skiy, V. A.; Skrypnik, I. A.

ORG: none

TITLE: Device for automatic control of a wheeled vehicle. Class 45, No. 187433
[announced by the State Union Scientific Research Tractor Institute (Cosudarstvennyy
soyuznyy nauchno-issledovatel'skiy traktorny institut); Khar'kov Tractor Plant
(Khar'kovskiy traktorny zavod)]

SOURCE: Izobreteniya, promyshlennyye obraztsy, tovarnyye znaki, no. 20, 1966, 163

TOPIC TAGS: agricultural machinery, ~~automatic control~~, automatic control ^{system},
tractor, ~~motor vehicle~~

ABSTRACT: An Author Certificate has been issued for a device for the automatic
control of a wheeled vehicle, which includes a duplicating feeler, a feeler-deflec-
tion transducer, an electric gate valve, and a hydraulic steering-gear amplifier. To
simplify the changeover to and from automatic control, it is equipped with a three-
way cock with a handle. The cock's input is connected to a pump, one of its outputs
is connected to a distributing hydraulic amplifier, and its second output is connected

UDC: 631.361629.114.2-52

Card 1/2

ACC NR: AP6035917

to the electric gate valve. In order to smoothly change the rpm, between the pump and the cock's input is mounted a throttle. Orig. art. has: 1 figure.

SUB CODE: 13/ SUBM DATE: 30Dec65/

Cord- 2/2

W.D. FILL, A. D.

From the Experience Gained in Conduction Students' Geological School
Outings in the Donbass
Nauk. zap. Kiivsk dorzh. un-tu, 13, No. 1, pp 49-54, 1954. (Ukrainian,
with Russian resume)

Considers the Donets coal basin as the most acceptable region for
the conducting of students' geological practice. Proposes the route
Izyum-Slavyansk-Druzhkovka-Chasovoyar-Artemovsk-Militovka-Torlovka-
Stalino-Karakubsk (limestone open pit)-Volnovakha-Zhulanov, for (1)
familiarization of the students with geological structure and useful
minerals of western Donbass, (2) practical conducting of field observation,
(3) familiarity with processes and types of mining operations, with
techniques of drilling deep exploratory wells, and with geological and
technical documentation. Students have practiced at geological survey
in the region of the Karakubsk deposits of lower Carboniferous flux
limestones in Kal'mius region. (RZhGeol., No 9, 1955)

30: Sum No 812, 6 Feb 1956

ROTAY, A.P.; KUDELYA, A.D.

Characteristics of the tectonic pattern of the southern margin of
the Donets Basin. Nauk.zap.Kyiv.un. 16 no.14:21-28 '57.
(MIRA 13:4)

(Donets Basin--Geology, Structural)

SOLDATOV, N.A.; KUDELYA, A.G. (Shostka)

Medical service for population, Vrach. delo no.8:102-104 Ag'63.
(MIRA 16:9)

1. Gorodskaya bol'nitsa No.1., Shostka.
(SHOSTKA—MEDICAL CARE)

MYLKO, Sergey Nesterovich, kand. tekhn. nauk; GONCHAROV, Ivan Nikolayevich, kand. tekhn. nauk; TARASENKO, Ivan Ivanovich, inzh.; KIMLAT, Zyunya Aronovich, inzh.; INLUTIN, Yevgeniy Vasil'yevich, inzh.; DOROFEEV, Yuriy Grigor'yevich, kand. tekhn. nauk; CHUKMASOV, S.F., doktor tekhn.nauk, retsenzent; KUDELYA, F.Ya., inzh., retsenzent; TANCHAROVA, V.F., red.iad-va; MATUSEVICH, S.M., tekhn. red.

[Uses for scrap metal] Ispol'zovanie metallicheskoj struzhki.
Kiev, Gostekhnizdat USSR, 1963. 142 p. (MIRA 16:12)
(Scrap metals)

RENCEVICH, A.A., kand.tekhn.nauk; SHAKHTAR', P.S., inzh.; VOLOD'KO, K.P.,
inzh.; YUSHCHENKO, A.I., inzh.; GALUSHKO, M.K., kand.tekhn.nauk;
KUZNETSOV, B.A., kand.tekhn.nauk; KUDEL'YA, G.Ya., inzh.;
MEKHEDA, M.K., inzh.; OKHRIMCHUK, O.Kh., tekhnika

Causes of the breaking of axles of electric mine locomotives.
Vop. rud. transp. no.6:192-203 '62. (MIRA 15:8)

1. Dnepropetrovskiy gornyy institut (for Rengevich, Kuznetsov,
Kudelya, Mekheda, Okhrimchuk). 2. Donetskiy nauchno-issledovatel'skiy
ugol'nyy institut (for Shakhtar', Galushko). 3. Aleksandrovskiy
mashinostroitel'nyy zavod (for Volod'ko, Yushchenko).
(Mine railroads) (Axles--Testing)

CA 78

modification of the method for regeneration of bone black. N. S. Krasovskiy and
I. R. Tugai. Nauk. Zapiski Tashkent. Prom. 13, 731-45 (1911). Bone black dis-
charged from the filters is boiled for 1-1.5 hrs. with 0.2% (on the wt. of bone black) of
soda. Thermal regeneration is not required. If necessary the bone black may be
further treated by acid for neutralization. Many advantages of this method are men-
tioned. V. F. Baitov

ADDITIONAL LITERATURE CLASSIFICATION

ca 28

Effect of grain size and lime-salt content on the decolorizing effect of bone char
 N. N. KUDRYA AND I. R. TUGAI. *Nash Zapiski Trubovod. Prom.* 9, No. 15, 149-55
 (1962). *Facts About Sugar* 27, 254; cf. C. A. 26, 44104. With decrease of the size of
 bone char grains in use for decolorizing sugar solutions the C content and the CaSO_4 con-
 tent decrease, while the content of CaCO_3 increases. The decolorizing power of the
 char varies inversely with the size of the grains, irrespective of decrease in content of
 C or of CaCO_3 . An increase in the CaSO_4 content up to 0.9% does not appreciably
 affect the decolorizing effect, but beyond 1.0% the decrease is quite noticeable. When
 the char has absorbed between 1 and 2% of CaCO_3 the sirups treated with it have
 40-87% more color than sirups treated with fresh char. The efficiency of such char is
 greatly increased by treatment with HCl. G. G.

ASM-SLA METALLURGICAL LITERATURE CLASSIFICATION

26

la

Processes and Properties Act

Regeneration of activated carbons. N. N. Kudrin.
Nash. Zapisk. Trubnikov. From 10, No. 32, 37 (1943).
Prolonged heating of activated C in alk. and acid solns. for
regeneration, which is the general practice, together with
excessive strength of the solns., decreases the decolorizing
power of a C. K. suggests the following scheme: treat an
exhausted C in water for 1 hr., boil again as a suspension
of 15-20° Be. for 1 hr. in 0.5-1% NaOH soln., wash
free from alkali; treat again in 1-1.5% HCl soln. for 1 hr.,
then further regenerate in a muffle at 600°. V. K. H.

ASB-5LA METALLURGICAL LITERATURE CLASSIFICATION

BC

10-I-2

Regeneration of bone black. M. KUPALYA (Nauk. Zapiski. Tekh. Prom., 1933, 10, No. 30, 91-96).—The filter (7 tons of bone black (1)) is filled with hot H_2O , which is drawn off in 10–15 min. and removed char dust. 0–45% of undissolved Na_2CO_3 on the wt. of char in the first treatment and 0–3% in the second, dissolved in H_2O at 90–95°, is introduced into the char filter for 1 hr., and (1) then washed to neutrality. After steaming, the filter is returned to operation. 3 or 4 such regenerations may be made without discharging and thermal treatment. Ch. Ana. (c)

ASB.51.4 METALLURGICAL LITERATURE CLASSIFICATION

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0 1 2 3 4 5 6 7 8 9	0 1 2 3 4 5 6 7 8 9	0 1 2 3 4 5 6 7 8 9	0 1 2 3 4 5 6 7 8 9

Limits of sweetening off of activated carbon before regeneration. N. M. Kudrya. Nauch. Zapiski Sakharnoi Prom. 11, No. 47, 54-64 (1934).--In order to decrease the amt. of sweet water for washing activated C and at the same time obtain a better sweetening off, the cake of C should not exceed 20-25 mm. in thickness and the temp. of the wash water should be as high as possible (90-98°). If the C is treated chemically and then thermal regeneration applied it is of advantage to leave in the C up to 5-7% of sugar. V. E. Baikov

V. E. Baikov

ASAC-520 METALLURGICAL LITERATURE CLASSIFICATION

Substitution of activated peat charcoal for bone char
N. N. Kudelya and Kh. I. Rivkhina. *Soviet Sugar* 14,
No. 12-14-9 (1961); *Chemie et Industrie* 39, 152. Char-
coal obtained by activation of peat coke with steam at 650
(481°), and having a grain size of 3-6 mm, possesses a higher
absorbing power toward the coloring matters present in
sugarhouse and refinery products than bone char. It
lends itself readily to regeneration. The cost of produc-
tion is lower than that of activated wood charcoal.

A. Papineau, Contributor

ASD-55A METALLURGICAL LITERATURE CLASSIFICATION

Determination of moisture in sugar by the Bonvech
carbide method. N. S. Kuchlya. *Zashchita Lab. 6.*
1926 7:10371. Excellent results are reported in detg.
H₂O in sugar by the CaC₂ method in the Bonvech app.
(illustrated). Some minor operation improvements are
suggested. Chas. Blum

KUDELYA, N. N.

VOLOKHVYANSKIY, V. M. I. KUDELYA, N. N.
33216. Za Kul'turu Proizvodstva. (Ovor'p; S Krasnyashchimi Veschestvami V
Refinadom Proizvodstva) Caxap. Prom-St', 1949, No 10, c. 4-7

SO: Letopis' Zhurnal'nykh Statey, Vol. 45, Moskva, 1949

KUDELYA, N.N.; KHMEL'NITSKAYA, A.Z., redaktor; TARASENKO, Z.K., tekhnicheskiiy redaktor

[Production of refined sugar] Proizvodstvo sakhara-refinada,
Moskva, Pishchepromizdat, 1951. 94 p. (MLRA 10:1)
(Sugar industry)

KUDELYA, N. N., CHEREDNIK, V. A.

Sugar Laws and Legislation

Regulating the acceptance of granulated sugar. Sakh. prom., 26, no. 1, 1952

9. Monthly List of Russian Accessions, Library of Congress, April 1952. UNCLASSIFIED.

KUDELYA, N. N.; CHEREDNIK, V. A.

Sugar - Manufacture and Refining

Production cycle of sugar-refining factory. Sakh. prom. 26 No. 5 1952.

Monthly List of Russian Accessions, Library of Congress, October 1952. UNCLASSIFIED.

TULYAKOV, Igor' Mikhaylovich; KUMEL'YA, Oktavian Stepanovich; NELIDOVA,
M.S., red.; SARAYEV, B.A., tekhn.red.

[Organisation of loading and unloading operations in the
harbor of Riga] Opyt organizatsii pogrushchno-rasgrushchnykh
rabot Rishakogo morskogo porta. Moskva, Izd-vo "Morskoi
transport," 1959. 105 p. (MIRA 12:6)
(Riga--Harbor) (Loading and unloading)

KUDELYA, V.A.

Consolidation folding on the boundary of the Middle and Upper
suites of the Krivoy Rog metamorphic series. Dop. AN URSR no.5:
632-635 '64. (MIRA 17'6)

1. Institut geologicheskikh nauk AN UkrSSR. Predstavleno akademikom
AN UkrSSR V.G.Bondarchukom [Bondarchuk, V.H.].

1. G. I. (1965), p. 11; 1965, p. 11.

1. The electric properties of polymers. (1965) -
1965, 1965.

1. Institut mineral'nykh resursov i Dnepropetrovskaya
osobnaya Institut mineral'nykh resursov. (1965),
1965.

1949, No. 3.

25143

Sinteticheskiye Etalony Dlya Spektrod'nogo Analiza. Prudy iz Avtomat. Svarke
pod Plyusom (In-t Elektrosvarki im. Iatona), SB. 6, 1949, s. 9 - 103

SC: INTCHIS No. 34

[illegible]

KUDELYA, E. E.

Journal of the Iron and Steel Institute
Vol. 176
Apr. 1954
Analysis

17
Spectral Analysis of Aluminium in Steels. E. E. Kudelya.
(Zashchita Laboratoriya, 1950, 16, (10), 1224-1227). (In
Russian). A method is described for the spectral determina-
tion (accurate within $\pm 2\%$) of small concentrations (0.01-
1.00%) of aluminium in steels and welds. The lines Al
3082-16 and Fe 3083-74 Å. were used. The results were found
to be the sum of metallic and combined aluminium. Greater
accuracy was obtained with a condensed-spark than with
A.C. arc produced spectra. Accuracy was also affected by
the duration of preliminary sparking, 15-20 sec. being the
optimum duration. Variation in aluminium content in-
fluenced the dimensions of the sparked spot, the size decreas-
ing with increasing concentration.—S. K.

11-5-54

INST. Electric Welding, Acad. Sci. USSR

"APPROVED FOR RELEASE: 06/19/2000

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APPROVED FOR RELEASE: 06/19/2000

CIA-RDP86-00513R000827120004-7"

KUDELYA, YE.S.

USSR/Engineering - Welding, Fluxes

Jun 51

"Cohesion of the Slag Crust With the Metal Surface of a Joint During Welding Under Flux," D. M. Babkin, Cand Tech Sci, YU. N. Gotal'skiy, Ye. S. Kudelya, V. V. Podgayetskiy, Engineers, Inst of Elec Welding Acad Ye. O. Paton, Acad Sci Ukrainian SSR

"Argon Del" No 6, pp 10-14

Studied the nature of chem adhesion of slag to the surface of the weld and methods of improving the slag separability. Oxidized layer of metal, formed on surface of weld, creates strong bond between slag crust and metal. Measures which hamper formation and growth of oxidation film facilitate sepn of slag crust.

200734

KUDELVA, E. S.

Spectroscopic investigation of seam welds. E. S. Kudelva, Doklady Akad. Nauk S.S.S.R. 76, 395-7(1951).

A high-frequency elec. discharge was used in spectroscopic analysis of a 0.003 to 0.003 mm. layer on the surface of welds on steel. Stationary rods of Cu or Zn were used as electrodes and were sharpened to truncated cones 1 mm. in diam. in the working section. The arc spacing was 0.5 mm. and was 6 to 8 mm. from the 0.03 mm. slit. No condenser was used. Exposure time was 20 sec. In a steel contg. Cr 0.28, Mn 0.70, and Si 0.31%, the limits of these elements in layers below the weld surface were: 0.003 mm., 0.15, 0.30, 0.08; 0.006 mm., 0.20, 0.57, 0.17; 0.010 mm., 0.18, 0.61, 0.20; 0.016 mm., 0.27, 0.72, 0.23; 0.030 mm., 0.28, 0.70, 0.31; 0.060 mm., 0.27, 0.77, 0.31%. The thinner the affected layer, the easier is the slag covering removed from the weld. In 4 steels alloyed with Cu 0.2, Cr 10.6, W 10.3, and Ti 11.7%, resp., the surface layers in which hot cracking occurred had Cu 18.3, Cr 30.2, W 14.6, and Ti 18.1%. Hot cracking was caused by a low-melting eutectic in the Cu alloy and by carbides in the others.

A. G. Guv

INST. Electric Welding in Yu. A. Pater Acad Sci USSR

KUDALYA, YE. S.

PA 227T31

USSR/Metallurgy - Steel, Spectrum
Analysis

21 Mar 52

"Determination of Phosphorus in Steels With the
Aid of a Steeloscope," Ye.S. Kudalya, A.S. Dem'-
yanchuk, Inst of Elec Welding imeni Ye.O. Paton,
Acad Sci Ukrainian SSR

"Dok Ak Nauk SSSR" Vol 83, No 3, pp 397, 398

Suggests rapid method for P detn by spark spectrum
using P II 6043.05 line in visible region of spec-
trum. Describes detn procedure and presents 3
spectrograms. States possibility of using similar
method for P detn in nonferrous alloys. Submitted
by Acad G.S. Landsberg 28 Jan 52.

227T31

USSR/Metallurgy - Steel, Spectrum
Analysis

Jan/Feb 53

"Determination of Small Quantities of Carbon in
Steels and Welds by the Method of Spectrum Anal-
ysis," Ye. S. Kudelya, A. S. Dem'yanchuk, Sci-
entific Workers, Inst of Electric Welding im Ye.
O. Paton

Avtomat Svarka, ⁴⁶No 1, pp 19-26

Describes method developed by authors for spectrum
detn of C in range of content from 0.03 to 0.15%.
Method uses permanent Mg electrode. Mg hampers

275T43
formation of thick oxide films, decreases oxidation
of C reducing diffusion of its gaseous products of
oxidation into atm. As a result, number of C atoms
in discharge zone increases and intensity of C ana-
lytical line grows. Method is applicable in case
of presence in steel of up to 2% Ni.

Kudelya, Ye. S., Scientific Worker

USSR/Metallurgy - Steel, Spectrum
Analysis

Jan/Feb 53

"On the Effect of Heat Treatment on Results of
Spectrum Analysis of Steels and Welded Joints,"
Ye. S. Kudelya, Scientific Worker, Inst of Electric
Welding in Ye. O. Paton

Avtomat Svarka, ^{Y.L.} No 1, pp 27-33

Establishes that in case of spectrum excitation by
h-f spark, heat treatment has no effect on results
of spectrum analysis of carbon and alloy steels or
their welded joints. This permits use of single

275Th4

calibration line for analysis of steels with un-
like initial structure. Action of h-f spark re-
sults in grain refining and formation of struc-
ture identical to hardened structure for given
grade of steel.

MEDOVAR, B.I.; KUDNELYA, Ye.S.; DEM'YANCHUK, A.S.

On a peculiarity of producing two-layer steel with an anti-corrosive coating. Avtom.svar.6 no.6:20-26 N-D '53. (MIRA 8:4)

1. Institut elektrosvarki im. Ye.O.Patona Akademii nauk USSR.
(Steel--Welding)

KUDNELYA, Ye.S.; SUBBOTOVSKIY, V.P.

Spectrum analysis of the composition and uniformity of fused
high-alloy metal. Avtom.svar. 7 no.3:74-81 My-Je '54.(MLRA 7:7)

1. Institut elektrosvarki im. Ye.O.Patona Akademii nauk USSR.
(Alloys) (Spectrum analysis)

USSR/Chemistry - Spectral analysis

Card 1/1 Pub. 43 - 58/97

Authors : Kudelya, E. S.

Title : Spectral analysis of automatically welded seams

Periodical : Izv. AN SSSR. Ser. fiz. 18/2, 278-279, Mar-Apr 1954

Abstract : A method is introduced for spectral analysis of welded seams and the basic requirements of such a method are listed. The new method was tested on Al, V, W, Si, Mn, Mg, Cu, Mo, Ni, Ti and Cr and its average arithmetical relative error was established at 3.5 - 4%.

Institution : Academy of Sciences Ukr-SSR, The E. O. Paton Electrical Welding Institute

Submitted :

USSR/ Chemistry - Analysis methods

Part 1/1 Pub. 43 - 59/97

Authors : Kudelya, E. S.; Demyanchuk, A. S.; and Ryabushko, O. P.
Title : Determination of phosphorus in steel and stannous-phosphorous bronzes by means of a styloscope
Periodical : Izv. AN SSSR. Ser. fiz. 18/2, page 279, Mar-Apr 1954
Abstract : A method was developed for styloscopic determination of phosphorus in steel and in stannous-phosphorous bronzes. The accuracy of the method varies between 0.02 and 0.03% in the case of steel and 0.05 to 1.0% in the case of bronze.
Institution : Academy of Sciences Ukr-SSR, The E. O. Paton Electrical Welding Institute
Submitted :

1-14-64, 2 S.

1/2

pm

Def

VSpectral analysis of welds of certain copper and aluminum alloys. B. S. Kudelya and A. S. Den Yan'chuk. *Atomat. Starka* 8, No. 2, 65-68 (1965).—A method is developed for the detn. of Al, Si, Mn, Pb, Sn, and Zn in Cu alloys and welds by means of spectroanalysis. Similarly, a method is given for detg. Fe, Si, Ca, Mn, Cu, and Ti in welds of Al alloys. Adjustments in calibration were required when it was found that a Zn content of 10-12% in Cu alloys had a definite weakening effect on the lines for other elements.

J. R. Behrmann

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APPROVED FOR RELEASE: 06/19/2000

CIA-RDP86-00513R000827120004-7"

KUDELYA, Ye.S.; DEM'YANCHUK, A.S.

Spectrochemical determination of carbon in iron alloys. Izv. AN
SSSR Ser.fis.19 no.2:150-151 Mr-Apr '55. (MLRA 9:1)

1. Institut elektrosvarki imeni Ye.A. Patona Akademii nauk USSR.
(Tartu--Spectrum analysis--Congresses)

KUDELYA, Ye. S.

Subject : USSR/Engineering AID P - 5420
Card 1/1 Pub. 11 - 10/13
Author : Kudelya, Ye. S.
Title : Spectral analysis of the 80-20 nickel alloys and the welded seams of such alloys.
Periodical : Avtom. svar., 5, 73-79, My 1956 .
Abstract : The author presents his method of analysis of nichromes for determination of content of chrome, titanium, aluminium, iron, manganese and silicon with the help of the spectrum produced by high-frequency sparks. The observation results on electrodes and the precision attained are described. Three tables, 4 graphs; 6 Russian references (1949-55) and 2 foreign references (1954).
Institution : Electrowelding Institute im. Paton
Submitted : 21 F 1956

KUDELYA, Ye.S.

Characteristics of carburization of metal layers adjoining the cut edge during oxyacetylene steel cutting. Avtom. svar. 9 no.6:97-103 N-D '56. (MIRA 10:3)

1. Ordena Trudovogo Krasnogo Znameni Institut elektrosvarki im. Ye.O.Patona AN USSR.

(Gas welding and cutting)
(Metallography)

KUDELYA, Ye.S.

Spectrum analysis of fused welding fluxes. Avtom. svar. 10 no.1:
73-76 Ja-F '57. (MLRA 10:4)

1. Ordena Trudovogo Krasnogo Znameni Institut elektrosvarki
im. Ye.O. Patona AN USSR.
(Spectrum analysis)

BOGDANOVA, V.V.; KUDELYA, Ye.S.

Spectrum analysis of certain titanium alloys and welded joints on these alloys. Avtom.svar.10 no.4:29-32 J1-Ag '57. (MIRA 10:10)

1. Nauchno-issledovatel'skiy institut tekhnologii i organizatsii proizvodstva aviatsionnoy promyshlennosti i ordena Trudovogo Krasnogo Znameni Institut elektrosvarki imeni Ye.O.Patona Akademii nauk USSR.
(Titanium alloys--Spectra) (Electric welding--Testing)

KUDHLYA, Ye.S.; DEM'YANCHUK, A.S.; RYABUSHKO, O.P.

Local spectrum analysis of weld joints and metal alloys. Avtom. svar.
(MIRA 10:12)
10 no.5:49-55 S-O '57.

1. Ordena Trudovogo Krasnogo Znameni Institut elektrosvarki im. Ye.O.
Patona AN USSR.
(Spectrum analysis)

KUDELYA, Ye.S.; RYABUSHKO, O.P.

Hydrogen determination in titanium by the spectrum method.
Avtom.svar. 10 no.6:95-98 N-D '57. (MIRA 11:1)

1.Ordena Trudovogo Krasnogo Znameni Institut elektrosvarki im.
Ye. O. Patona AN USSR.

(Titanium alloys--Spectra)
(Gases in metals)

"APPROVED FOR RELEASE: 06/19/2000

CIA-RDP86-00513R000827120004-7

APPROVED FOR RELEASE: 06/19/2000

CIA-RDP86-00513R000827120004-7"

KUDELYA, YE. S.

125-58-4-10/15

AUTHOR: Kudelya, Ye.S., Candidate of Technical Sciences

TITLE: Determining the Composition of Welds on Steel With the Use of the Electric Spark-Sampling Method (Opredeleniye sostava svarnykh shvov na stali s pomoshch'yu elektroiskrovogo otbora proby)

PERIODICAL: Avtomaticheskaya Svarka, 1958, Nr 4, pp 67-71 (USSR)

ABSTRACT: The electric spark sampling method (holding an electrode to a weld and exciting an electric discharge between them in which a quantity of weld metal passes into the tip of electrode) permits the taking of samples from welds on structures where conventional sampling for laboratory analysis is not possible (like welds on high-pressure pipelines). This method was suggested in 1947 [Ref. 4]. In the experiments with the spark-sampling method described in this article, a high-frequency spark discharge of a generator with direct coupling of the discharging and oscillating circuit [described in Ref. 1, 2] and an electrode of spectrally pure copper were used. The discharges destroyed a steel layer of only 20-30 micron in 1 min. It is concluded that the method is suitable for determining

Card 1/2

125-58-4-10/15

Determining the Composition of Welds on Steel With the Use of the Electric Spark-Sampling Method

the concentration of V, Si, Mn, Mo, Ni, Nb, Ti, and Cr in welds on chrome-nickel steel, but the accuracy of analysis is lower than that of the conventional spectrum analysis, and the errors in determination of every element are between 6 and 12%. A special investigation of the causes of such large analysis errors revealed that the errors were always maximum in an analysis of samples taken from a welded structure and not from a small specimen. It appears that the large mass of a structure connected into the discharging circuit of the generator changes the capacitance and inductance of the circuit. It is recommended, for the sake of higher accuracy, to take samples from five electrodes simultaneously and to photograph the spectrum five times.

There are 2 graphs, 3 tables, and 6 Soviet references.

ASSOCIATION: Institut elektrosvarki imeni Ye O. Patona AN UkrSSR (Electric Welding Institute imeni Ye O. Paton of the AS UkrSSR)

SUBMITTED: November 28, 1957

AVAILABLE: Library of Congress

Card 2/2

KUDELYA, Ye.S.

Some characteristics of the entry of components of the sample
into the discharge during spark excitation of the spectrum.
Fiz.sbor. no.4:238-241 '58. (MIRA 12:5)

1. Ordena Trudovogo Krasnogo Znameni institut elektrosvarki
imeni Ye.O.Patona AN USSR.
(Electric spark) (Spectrum analysis)

KUDELYA, Ye.S.

Nature of structural effects in the spectrum analysis of
metal alloys. Fiz.sbor. no.4:242-244 '58. (MIRA 12:5)

1. Ordena Trudovogo Krasnogo Znameni Institut elektrosvarki
imeni akademika Ye.O.Patona AN USSR.
(Alloys--Spectra)

DEM'YANCHUK, A.S.; KUDALIYA, Ye.S.

Peculiarities of the spectral determination of carbon, phosphorus,
and sulfur in metal alloys. Fiz.sbor. no.4:535-538 '58.
(MIRA 12:5)

1. Ordena Trudovogo Krasnogo Znamni Instituta elektrosvarki
imeni akademika Ye.O.Patona AN USSR.
(Carbon--Spectra) (Sulfur--Spectra) (Phosphorus--Spectra)

Kudelya Ye.S.

AUTHORS: Kudelya, Ye.S., and Ryabushko, O.P.

125-58-5-2/13

TITLE: The Spectrum Method for Determining Hydrogen in Some Metal Alloys and Welds (Spektral'noye opredeleniye vodoroda v nekotorykh metallicheskih splavakh i svarnykh shvakh)

PERIODICAL: Avtomaticheskaya Svarka, 1958, Nr 5, pp 12-17 (USSR)

ABSTRACT:

The fundamentals of the method for determining hydrogen in titanium alloys, and of the impulse generator for the excitation of spectrum were described by the authors in a previous study [Ref. 1]. In this article, they give details of their method for determining hydrogen in chrome-nickel steel and welds, and define more precisely the method of hydrogen determination in titanium alloys and welds. The peculiarities of the hydrogen transition from metal into the electric discharge plasma were studied in experiments with prolonged impulse discharges on a single site, in an argon as well as in an air medium. The accuracy of measurements corresponds to the accuracy of the hydrogen determination by heating in a vacuum. The results are more easily reproduced than with any other known method. The sensitivity of hydrogen determination in steel was found to be 20 times higher than

Card 1/2

125-58-5-2/13

The Spectrum Method for Determining Hydrogen in Some Metal Alloys and Welds

in titanium alloys. The method is suitable for local determination of hydrogen in separate metal layers. Its importance for investigations of hydrogen distribution in welded joints is stressed, particularly for determining the hydrogen content in the zone-of-fusion of the weld and the base metal. There are 5 figures, 4 tables, and 1 Soviet reference.

ASSOCIATION: Institut elektrosvarki imeni Ye.O. Patona AN UkrSSR
(Electric Welding Institute imeni Ye.O. Paton of the AS UkrSSR)

SUBMITTED: December 20, 1957

AVAILABLE: Library of Congress

Card 2/2

SOV-125-58-9-12/14

AUTHOR: Kudelya, Ye.S.

TITLE: Some Peculiarities in Spectral Determination of Phosphorus Content in Steel and Weld Joints (Nekotoryye osobennosti spektral'nogo opredeleniya fosfora v stali i svarnykh shvakh)

PERIODICAL: Avtomaticheskaya svarka, 1958, Nr 9, pp 88-92 (USSR)

ABSTRACT: Peculiarities in the spectral determination of phosphorus passage from a steel specimen into the discharge cloud are discussed. Experimental tests carried out on steel specimens containing a phosphorus radioisotope confirmed the burning out of phosphorus, thereby making it difficult to obtain a stable phosphorus spectrum. To prevent burning-out, technological recommendations are given relating to the choice of electrodes and the light source. In accordance with the described technology, it is possible to determine the phosphorus content in steel from as low a concentration as 0.006 or 0.008%, with an average relative error of ± 3 to 7%. Although local analyses by the described method entail some difficulties, it is possible, however, to apply them for solving various specific analytical problems, in particular those relating to weld joints.

Card 1/2

SOV-125-53-9-12/14

' Some Peculiarities in Spectral Determination of Phosphorus Content in Steel and Weld Joints

There are 2 graphs, 1 autoradiogram, 1 table, and 11 Soviet references.

ASSOCIATION: Institut elektrosvarki imeni Ye.O. Patona, AN USSR (Institute of Electric Welding imeni Ye.O. Paton, AS UkrSSR)

SUBMITTED: June 3, 1958

1. Steel--Properties 2. Welded joints--Properties 3. Phosphorus
--Determination 4. Metals--Spectra

Card 2/2

AUTHOR: Kudelya, Ye. S. SOV/125-58-12-11/13

TITLE: Determining Tin and Vanadium Content in Titanium Alloys by Spectral Method (Opredeleniye olova i vanadiya v titanovykh splavakh spektral'nym metodom)

PERIODICAL: Avtomaticheskaya svarka, 1958, Nr 12, pp 82-83 (USSR)

ABSTRACT: The Institute of Electric Welding has developed a method of analyzing the elements in titanium alloys and their weld joints by spectral analysis, with the use of high-voltage and high-frequency spark discharge. Information is given on a new method for determining tin and vanadium content in titanium alloys with a medium-dispersion spectrograph and spectrum excitation by high-frequency discharge. Recommendations for the excitation and recording of the spectrum are given.

ASSOCIATION: There is 1 set of graphs, and 2 Soviet references. Institut elektrosvarki imeni Ye.O. Patona (Institute of Electric Welding imeni Ye.O. Paton)

SUBMITTED: September 28, 1958

Card 1/1

AUTHOR: Kudelya, Ye.S.

32-24-4-32/67

TITLE: The Determination of Carbon in Chrome-Nickel Steels According to the Spectral Method (Opredeleniye ugleroda v khromonikelevykh stalyakh spektral'nyy metodom)

PERIODICAL: Zavodskaya Laboratoriya, 1958, Vol. 24, Nr 4, pp. 458-458 (USSR)

ABSTRACT: In view of the fact that when apparatus of average dispersion are used, the spectral lines of nickel disturb the determination of carbon, it is suggested that, as already observed, copper electrodes are replaced by magnesium electrodes. Complications occur at nickel concentrations of more than 2% and less than 0.8%. For chrome-nickel steel containing 8 - 20% nickel the author recommends using the KSA-1 spectrograph, which has greater dispersing properties, for the determination of carbon. A high-frequency spark generator developed by the author as well as the spark generator IG-2 are recommended. Individual data are given. Exposure is said to take 30 - 40 seconds. Fe 2279.9 Å serves as a line of comparison. The method of three standards is employed, in which the spectra are recorded three times. The structure of

Card 1/2

The Determination of Carbon in Chrome-Nickel Steels
According to the Spectral Method

32-24-4-32/67

the sample and the secondary elements exercise no influence upon results. From the results obtained by 30 parallel investigations of chrome-nickel welding seams of Kh18Ni2Ti steel (containing 0.09% carbon) it may be seen that there is an analysis error of $\pm 4.4\%$. The author recommends this method of investigation in the case of a content of more than 0.06% carbon. There are 1 table, and 2 references, 2 of which are Soviet.

ASSOCIATION: Institut elektrosvarki im. Ye.O.Patona Akademii nauk UkrSSR
(Institute for Electric Welding, imeni Ye.O.Paton, AS Ukrainian SSR)

1. Steel alloys--Spectra 2. Carbon--Determination 3. Electrodes
--Performance 4. Spectrum analyzers--Applications

Card 2/2

AUTHOR:

Kudelya, Ye.S.

32-24-6-26/44

TITLE:

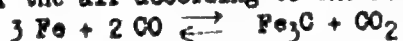
Using Carbon Electrodes in the
Spectral Analysis of Steels (A voprosu o primeneni
uglerodistykh elektrodov pri spektral'nom analize staley)

PERIODICAL:

Zavodskaya Laboratoriya, 1958, Vol 24, Nr 6, pp 752-753 (USSR)

ABSTRACT:

L.N. Filimonov (Ref 3) found that during work carried out with metal electrodes, decarbonisation of the irradiated part of the sample surface takes place during the process of irradiation. The same, only in the inverse sense, was found to be the case during investigations dealt with by the present paper, viz. that if carbon or graphite electrodes are used during irradiation, carbon is formed on the irradiated surface of the sample. Various data as well as a table showing the results obtained in determining carbon in the surface layer are given; an already described method was used for the purpose. The mechanism of "carbonisation" is explained by the effect produced by the carbon monoxide formed with the oxygen of the air according to the reaction



Card 1/2

Carbide formed on the surface on this occasion, and the determina-

Using Carbon Electrodes
in the Spectral Analysis of Steels

32-24-6-26/44

tion of carbide-forming admixtures in steels is rendered difficult. Comparative tests carried out on tungsten and chromium samples showed that tungsten carbonizes more, which is believed to be due to its property of being able to form greater quantities of carbide. From the results obtained it follows that carbon electrodes are not suited for determinations carried out on steels. It is mentioned in this connection that the carbon forming on the surface penetrates into the surface layer and prevents diffusion of the carbide-forming elements from the interior of the sample to the irradiated layer, which fact confirms the important part played by the character of the diffusion of admixtures into the irradiated layer and/or the radiation of the discharge cloud. There are 1 figure, 1 table, and 8 references, 8 of which are Soviet.

ASSOCIATION: Institut elektrosvariki im. Ye.O.Patona Akademii nauk USSR
(Institute of Electric Welding imeni Ye.O.Paton, AS Ukraine SSR)

- | | |
|-----------------------------------|-----------------------------------|
| 1. Steel--Spectrographic analysis | 2. Carbon electrodes--Performance |
| 3. Metal electrodes--Performance | 4. Carbon--Determination |

Card 2/2

KUDEL'YA, Ye.S.

Standard specimens used in spectrum analysis of metal alloys
[with summary in English]. Inzh.-fiz.sbur. no.1:46-48 Ja '59.
(MIRA 12:1)

1. Institut elektrosvarki im. Ye.O.Patona AN USSR, Kiev.
(Alloys--Spectra)

SOV/115-59-3-7/13

18(7)

AUTHOR:

Kudelya, Ye.S.

TITLE:

A Special Feature in the Spectroscopic Determination of Carbon and Phosphorus in Steel and Welded Alloys (Ob odnoy osobennosti spektral'nogo opredeleniya ugleroda i fosfora v stali i svarnykh shvakh)

PERIODICAL:

Avtomaticheskaya svarka, 1959, Vol 11, Nr 3, pp 59-63 (USSR)

ABSTRACT:

The feature described is based on the determination of the absolute density of the spectral lines. For the analysis, the following lines are used: for carbon C-III 2296, 8 Å. (Tab. 1 and 2), for manganese 2939, 3 Å. (Tab. 3 and 4), for phosphorus P I 149, 1 Å. (Tab. 5 and 6). Every table gives a percentual break down of the samples to the single values. A limit of error for carbon up to $\pm 4.4\%$, for phosphorus up to $\pm 2.5\%$ is calculated. Table 7 gives a summary of the determination of phosphorus in steel Type Kh18N9 with chemical analysis, spectral analysis with determination of the absolute and the relative

Card 1/2

SOV/115-59-3-7/13

A Special Feature in the Spectroscopic Determination of Carbon and Phosphorus in Steel and Welded Alloys

density. There are 7 tables and 6 Soviet references.

ASSOCIATION: Ordena trudovogo krasnogo znameni institut elektrosvariki im. Ye. O. Patona AN USSR (Order of the Red Banner of Labor Institute for Electro-Welding im. Ye. O. Paton, AS UkrSSR)

SUBMITTED: January 11, 1959

Card 2/2

13(7)

SOV/125-12-6-4/14

AUTHOR: Kudelya, Ye. S., Candidate of Technical Sciences

TITLE: Spectro-Chemical Identification of Aluminum in Chrome Nickel Austenite Steels and Welds

PERIODICAL: Avtomaticheskaya svarka, 1959, Vol 12, Nr 6 (75)
pp 28 30 (USSR)

ABSTRACT: The article presents a new method of quantitative identification of aluminum in chrome nickel austenite steels and welds. As light source a "Tesla Spark" from a generator as described in Ref. 2 was used. The investigation was made on the absolute blackening of the line of Al 3082,155 Å. Standards of chrome nickel austenite steel Nr 123, 124, 25 and 5 were used. Standards of steel type KhMYuA Nr 102, 103 and 104 of the Ural Institute of metals were also used. The accuracy of the identification of aluminum by absolute blackening of its analytic line is not inferior to the accuracy of the analysis by the difference of blackening. There are 3 graphs, and 4 Soviet references.

Card 1/2

SOV/125-12-6-4/14

Spectro-Chemical Identification of Aluminum in Chrome Nickel
Austenite Steels and Welds

ASSOCIATION: Ordena trudovogo krasnogo znameni institut elektro-
svarki imeni Ye.O. Patona AN USSR (Institute of Elec-
tric Welding imeni Ye.O. Paton AS UkrSSR of the Or-
der of the Red Banner of Labor).

SUBMITTED: January 20, 1959

Card 2/2

SOV/48-23-9-41/57

24(7)

AUTHORS: Kudelya, Ye. S., Dem'yanchuk, A. S.

TITLE: On Some Methods of Standardization in the Analysis of Alloys

PERIODICAL: Izvestiya Akademii nauk SSSR. Seriya fizicheskaya, 1959, Vol 23, Nr 9, pp 1143 - 1144 (USSR)

ABSTRACT: In the analysis of various industrial alloys the authors used only one standard sample in contrast to the normal method in which three standard samples were used. The exactness of the analysis is practically not diminished as shown in practice. First, the authors employed the so-called method of "interrupted exposure" (interrupted exposure), in which the spectrum of the standard is recorded by exposures of t , $2t/3$, $1t/2$ and $1t/3$, in which case in the last three spectrograms the photograph of the spectrum of the base material is additionally superimposed with the times of exposure $1t/3$, $1t/2$ and $2t/3$. Evaluation of the spectrum is carried out in a similar manner as in the case of the use of three standards. Figure 1 shows a calibration curve for the deter-

Card 1/2

On Some Methods of Standardization in the Analysis
of Alloys

SCV/48-23-9-41/57

mination of Si in steels, which was constructed by this method. Further, the method of "dosed exposure" is described, in which a series of spectra of one standard is produced with times of exposure which are partly greater and partly smaller than t . From these photographs concentration is then determined by calculation. As an example figure 2 shows the calibration curve for the determination of nickel in steels, which was developed according to this method. The calibration curve was developed by means of two different standards and is therefore forked in its upper part. For the calculation of the nickel content formula (1) is then given. This formula, however, applies only to the range in which both calibration curves coincide. Formula (2) makes the empirical calculation of concentration in the upper part of the calibration curve possible. There are 2 figures.

ASSOCIATION: Institut elektrosvarki imeni Ye. O. Patona Akademii nauk USSR
(Institute for Electrical Welding imeni Ye. O. Paton of the
Academy of Sciences, UkrSSR)

Card 2/2

06/19/2000

CIA-RDP86-00513R000827120004-

S/125/60/0001/012/018
D042/D001

25(1)

AUTHOR:

TITLE:

PERIODICAL:

ABSTRACT:

Kudelya, Ye.S.

Spectrum Analysis of High-Alloy Weld Metal

Avtomaticheskaya svarka, 1960, Nr 3, pp 76-79

When welds in high-chromium steel are alloyed with nickel, the weld metal composition is often not clearly chromium steel or chromo-nickel steel, but there are analysis methods for these two steel grades which are radically different. A new analysis method developed at the Institut elektrosvarki im. Ye.O. Patona AN USSR (Institute of Electric Welding imeni Ye.O. Paton AS USSR) is suggested. It is based on a previously described work [Ref. 1]. The techniques suggested initially [Ref. 1] did not ensure sufficient accuracy in case of high concentration of elements in weld metal, i.e. higher than 16% Cr, 4% Ni, 6 Mn, etc. The new techniques recommended are: use of a high-frequency spark from a generator of the Institute of Electric Welding design [Ref. 1] with transformer; generator feed

Card 1/2

KUDELYA, Ye.S.; RYABUSHKO, O.P.

Some characteristics of the spectral determination of hydrogen in
metallic alloys. Trudy kom.anal.khim. 10:183-189 '60. (MIRA 13:8)

1. Ordena Trudovogo Krasnogo Znameni Institut elektrosvarki im.
Ye.O. Patona AN USSR.
(Metals--Hydrogen content)
(Hydrogen--Analysis)

KUDELYA, Ye.S.; HYABUSHKO, O.P.

Spectrum analysis of copper coatings. Avtom.svar. 13
no.7:92-94 J1 '60. (MIRA 13:7)
(Copper--Spectra) (Copper plating)

S/032/60/026/010/012/035
B016/B054

AUTHOR: Kudelya, Ye. S.

TITLE: Spectrum Analysis of Magnetic Alloys of Aluminum, Cobalt, Copper, and Nickel

PERIODICAL: Zavodskaya laboratoriya, 1960, Vol. 26, No. 10, pp. 1128-1129

TEXT: The author describes a method of analyzing magnetic alloys of the types "AlNi" and "AlNiCo". A quartz spectrograph of medium dispersion of the type ИСП-28 (ISP-28) is used for analysis. The light source used is a high-frequency spark; the feeding current of the generator is 0.8 a; the voltage in the secondary transformer winding is 4,000 v; the capacity of the capacitor of the resonant circuit, which is used for shunting the analytical interval, is 120 μ f; the analytical interval is 0.8 - 1.0 mm. A cylindrically ground magnesium rod (diameter 1.6 - 1.8 mm) is used as a stable electrode; preliminary sparking of samples and standards: 40 sec. The analysis is made by the method of three standards. As impurities in magnesium alloys are not always evenly distributed, the author recommends

Card 1/2

Spectrum Analysis of Magnetic Alloys of
Aluminum, Cobalt, Copper, and Nickel

S/032/60/026/010/012/035
B016/B054

taking spectra of five sections of the surface of samples and standards. The table on p. 1129 indicates the line pairs and the limits of the mixture concentrations to be determined. The spectral lines can be used as standard lines to determine copper as well as other elements, e.g., aluminum (line Mg 3091,0,77 Å). The calibration diagrams have large angles of slope (55 - 60°). The mean relative errors of analysis in five spectrograms are 1.5 - 5%, depending on the element to be determined. There are 3 Soviet references.

ASSOCIATION: Institut metallokeramiki i spetsial'nykh splavov Akademii nauk USSR (Institute of Powder Metallurgy and Special Alloys of the Academy of Sciences UkrSSR)

Card 2/2

KUDELYA, Ye.S.

Analysis of brass by exciting the spectrum with a high-frequency discharge. Zav.lab. 26 no.12:1374-1375 '60. (MIRA 13:12)

1. Institut metallokeramiki i spetsial'nykh splavov AN USSR.
(Brass--Spectra)

KUDELYA, Yevgeniy Stepanovich; F. ILTECHENSKAYA, N.F., red.; GUSAKOV, K.F.,
tekhn. red.

[Spectrum analysis of metals and alloys; photographic methods]
Spektral'nyi analiz metallov i splavov; fotograficheskie metody.
Kiev, Gos.izd-vo tekhn. lit-ry USSR, 1961. 230 p. (MIRA 14:12)
(Metals—Spectra) (Spectrophotometry)

S/137/61/000/011/113/123
AO60/A101

AUTHORS: Kudelya, Ye. S., Tyutina, A. Ye.

TITLE: Determination of small quantities of aluminum in steel

PERIODICAL: Referativnyy zhurnal. Metallurgiya, no. 11, 1961, 4, abstract 11K21
(V sb.: "Vopr. proiz-va stali", no. 8, Kiev, AN USSR, 1961, 96 - 101)

TEXT: Methods have been elaborated for determining 0.08 - 0.1% Al in steel with arc excitation of the spectrum under the following optimum conditions: the arc current 5 amps, analytic interval 2.5 mm, gap width 0.01 mm, stationary electrode - Cu rod 2.2 - 8 mm dia., time of preliminary roasting 30 - 40 sec. The mean relative error of the analysis is $\pm 5 - 6\%$. To determine the Al in the steel by the analytic chemistry method the batch of steel shavings is dissolved in H_2SO_4 . The solution filtered off is neutralized with NaOH up to pH 6.6. The precipitate formed is washed, dissolved in HNO_3 and 30% $HClO_4$, adding NaCl. The solution is boiled to remove Cr, in the form of a chromyl chloride, as well as Sn and As. The remainder is diluted with water up to 50 - 100 ml, the content is filtered to eliminate SiO_2 . The solution is poured into a hot solution of

Card 1/2

S/137/61/000/011/113/123
A060/A101

Determination of small quantities of aluminum in steel

NaOH (100 g/liter) to precipitate the hydrates of Fe, Ni, Cu, Ti, and Mn. The mixture is transferred into a 500-ml flask and after cooling it is filtered. To 250 ml of the filtrate one adds 10 ml of 15% solution of $(\text{NH}_4)_2\text{HPO}_4$, 20 ml of 25% solution of NaCl, 10 ml of concentrated HCl, one neutralizes according to methyl red and thereupon adds NH_4OH up to the basic reaction of the solution. Later one adds a warm solution of ammonium acetate and keeps on the warm plate for 50 min. The solution obtained is filtered and an AlPO_4 precipitate is obtained in the filter. The latter is washed and roasted at $1,000^\circ\text{C}$. The precipitate is weighed and the Al content is determined from its weight. There are 5 references.

L. Vorob'yeva

[Abstracter's note: Complete translation]

Card 2/2

KUDELYA, Ye.S.; PLOTNITSKIY, V.M.

Determination of small concentrations of titanium, silicon, and aluminum in steels. Zav.lab. 28 no.5:558-560 '62. (MIRA 15:6)

1. Institut metallokeramiki i spetsial'nykh splavov AN USSR.
(Steel--Spectra) (Metals--Spectra)

KUDENKO, A.A.

Formation of sedimentary and metamorphic lead deposits in
central Kazakhstan. Razved.i okh.nedr 21 no.1:14-18 Ja-F
'55.

(MLRA 9:12)

(Kazakhstan--Lead ores)

USSR/Cosmochemistry - Geochemistry. Hydrochemistry

D.

Abs Jour : Referat Zhur - Khimiya, No 2, 1957, 4188

Author : Kudenko, A.A.

Title : On Residual Deposits of Lead

Orig Pub : Razvedka i okhrana nedr, 1956²², No 4, 16-18

Abstract : Using as an example the Central Kazakhstan, a refutation is presented of the well known rule, formulated by S.S. Smirnov: "... if the oxidation zone contains ore that is unprofitable as to its lead content, the sulfide ores will be also unprofitable in their content of this metal", and vice versa. The rule is vitiated by the presence in limonitized rocks with quartz and barite veins, or in opalized and limonitized limestones, of residual lead minerals. Criteria of differentiation of residual accumulation are as yet undetermined; for the time being there is proposed a single tentative characteristic -- extensive occurrence of weathering shell within the area under study.

Card 1/1

- 75 -

Karaganda geoluprasleniya

KUDENKO, A.A., inzhener-geolog;

Quartzites of central Kazakhstan. Sbor.nauch.trud.KazGMI
no.18:90-91 '59. (MIRA 15:2)

(Kazakhstan--Quartzite)

KUDENKO, A.A.; STETSENKO, V.P.

Role of volcanism in the formation of sedimentary-effusive
and sedimentary layers. Trudy Lab. paleovulk. Kazakh. gos.
un. no.56:231-234 '63. (MIRA 16:6)

1. Kazakhskiy nauchno-issledovatel'skiy institut mineral'nogo
syr'ya Ministerstva geologii i okhrany nedr Kazakhskoy SSR i
Yuzhno-Kazakhstanskoye geologicheskoye upravleniye.
(Volcanoes) (Petrology)

L 42901-06
ACC NR: A25024934 SOURCE CODE: UR/0031/66/000/007/E046/E047

AUTHOR: Kudenko, A. A.; Stetsenko, V. P. 14

TITLE: Chemical formulas of minerals B

SOURCE: Ref. zh. Khimiya, Part I, Abs. 7B331

REF SOURCE: Mineralog. sb. L'vovsk. un-t, vyp. 3, no. 18, 1964, 251-256

TOPIC TAGS: chemical formula, mineral

ABSTRACT: Possible sources of error in the determination of Avogadro's number, based on the main parameters of minerals (molecular weight, density, and composition of the unit cell), are examined. Modern methods of writing chemical formulas of minerals are discussed critically, and it is suggested that the number of formula units Z be replaced by the number of ions or atoms entering into a single cell. This method is used to derive formulas for a series of minerals which are isomorphous mixtures. The formulas of polybasite $(Ag, Cu)_{16}Sb_2S_{11}$ ($Z = 2$) and Fe-sphalerite $(Zn, Fe)S$ ($Z = 4$), taking into account the number of atoms per cell, will be $(Ag_{30}Cu_2)Sb_4S_{22}$ and $(Zn_{3.8}Fe_{0.2})S_4$. L. Dem'yanets. [Translation of abstract]

SUB CODE: 07,03

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